

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A multi-stack optical data storage medium for recording using a focused radiation beam having a wavelength  $\lambda$  and entering through an entrance face of the medium

during recording, the multi-stack optical data storage medium

comprising:

- a first substrate ~~with-present~~having, on a side thereof:

a first  $L_0$  guide groove formed therein, and

- a first recording stack ~~named  $L_0$~~  comprising a recordable type  $L_0$  recording layer, ~~and formed in a first  $L_0$  guide groove~~, the

$L_0$  recording layer having a thickness  $d_{L0G}$  in the groove and a thickness  $d_{L0L}$  adjacent the groove, and a first reflective layer present between the  $L_0$  recording layer and the first substrate,

- a second substrate ~~with-present~~having, on a side thereof:

a second  $L_1$  guide groove formed therein, and

- a second recording stack ~~named  $L_1$~~  comprising a recordable type  $L_1$  recording layer, the  $L_1$  recording layer having a thickness  $d_{L1G}$  in the groove and a thickness  $d_{L1L}$  adjacent the groove, said second recording stack being present at a position closer to the entrance face than the  $L_0$  recording stack ~~and formed in a second  $L_1$~~

guide groove; and

- a transparent spacer layer sandwiched between the recording stacks, said transparent spacer layer having a thickness substantially larger than the depth of focus of the focused radiation beam,

25 characterized in that the depth of the first  $L_0$  guide groove is smaller than  $0.15\lambda$ , the recordable type  $L_0$  and  $L_1$  recording layers comprise an organic dye, and that the thickness  $d_{L0L}$  of the  $L_0$  recording layer adjacent the groove is substantially equal to or larger than the thickness  $d_{L1G}$  of the  $L_1$  recording layer in the  
30 groove.

2. (Currently Amended) A ~~The~~ multi-stack optical data storage medium ~~according to as claimed in~~ claim 1, wherein the thickness  $d_{L0G}$  of the  $L_0$  recording layer in the groove is substantially equal to or larger than twice the thickness  $2d_{L1L}$  of the  $L_1$  recording  
5 layer adjacent the groove.

3. (Cancelled).

4. (Currently Amended) A ~~The~~ multi-stack optical data storage medium according to claim 31, wherein the thickness  $d_{L1G}$  of the  $L_1$  recording layer in the groove is larger than the thickness  $d_{L1L}$  of the  $L_1$  recording layer adjacent to the groove.

5. (Currently Amended) A-~~The~~ multi-stack optical data storage medium ~~according to~~as claimed in claim 4, wherein a dielectric layer is present at a side of the L<sub>0</sub> recording layer opposite from the side where the first reflective layer is present.

6. (Currently Amended) A-~~The~~ multi-stack optical data storage medium ~~according to~~as claimed in claim 5, wherein the dielectric layer has a thickness in the range of 5 nm - 120 nm.

7. (Currently Amended) A-~~The~~ multi-stack optical data storage medium ~~according to~~as claimed in claim 4, wherein a second reflective layer comprising a metal is present at a side of the L<sub>0</sub> recording layer opposite from the side where the first reflective  
5 layer is present.

8. (Currently Amended) A-~~The~~ multi-stack optical data storage medium ~~according to~~as claimed in claim 7, wherein the second reflective layer has a thickness in the range of 5 nm -15 nm.

9. (Currently Amended) A-~~The~~ multi-stack optical data storage medium ~~according to~~as claimed in claim 7, wherein the second reflective layer mainly comprises a metal selected from the group of Ag, Au and Cu.

10. (Currently Amended) ~~Use of an~~The optical data storage medium as claimed in claim 1, ~~for multi-stack recording with~~wherein

a reflectivity level of the first recording stack  $L_0$  ~~as such~~ of is  
more than 50%, and a modulation of recorded marks in the  $L_0$   
5 recording layer ~~of is~~ is more than 60%.